

SONY®



HD Digital Videocassette Recorder

SRW-1

HD Digital VTR Adaptor

SRPC-1



HD 4:4:4 recording with field-use portability

As one of the newest members in the CineAlta™ lineup, you can expect only the highest quality CineAlta images from the new Sony SRW-1 HD Digital Video Cassette Recorder and the SRPC-1 HD Digital VTR Adapter. Together, they form the first Sony full-bandwidth 4:4:4 (RGB) portable VTR system. This new system further enhances the flexibility of the CineAlta products in field production applications.*

Designed to comply with ISO/IEC 14496-2:2001 and FDAM 1:2001 standards, the SRW-1 offers virtually lossless 1080-line high-definition recordings at multiple frame rates on the very latest HDCAM-SR tape media.

The SRW-1/SRPC-1 connects to its companion HDC-F950 camera, via a single fiber-optic cable, to create a convenient, portable, full-bandwidth 4:4:4 (RGB) image capturing system. The SRW-1 can also be configured with the Sony HDW-F900 HDCAM camcorder to record HD 4:2:2 component images.

The SRPC-1 HD Digital VTR Adapter, specially designed for the SRW-1, provides a variety of video-processing functions and houses an array of input and output connectors, including HD/SD signals, 12 channels of digital audio, and 4 channels of analog audio. Its processing functions include the easy handling of 2-3 pull-down insertions, down conversion, and RGB – Y/Pb/Pr color-space conversion.

*The SRW-1 must be used with the SRPC-1

Preliminary

Features and Benefits

•High-quality HD field recording

Input and output signals

- 1920 x 1080 4:2:2 (Y/Pb/Pr) 10-bit
- 1920 x 1080 4:4:4 (R/G/B) 10-bit
- MPEG-4 Studio Profile (SP) compression
- 4:2:2 or 4:4:4 (R/G/B)

•Multi-frame-rate 1080 HD recording and playback

Progressive: 23.976/24/25/29.97/30/50/59.94/60

Interlace: 50/59.94/60

Variable frame-rate recording

•RGB recording for cinema applications

RGB signals and control available via a single fiber-optic cable

•High-definition picture quality using the HDCAM-SR format

Capable of storing more than six times more data than the HDCAM format

•Stable and durable videotape

•Backspace editing

•Long recording time of 50 min @ 24P and 40 min @ 60i on S-sized tape

•For longer recording times, VTRs can be cascaded using a fiber-optic cable

•RS-422 control for dubbing, and server connection

•Optical link to cameras (optional)

•Detachable control panel

•Compact, lightweight design

•Durable construction

•Built-in Tele-File read/write capability

•Built-in HD-to-SD down conversion

•Built-in 2-3 pull-down capability



•Flexible versatile outputs

		Output Signal	
Tape recording	VTR Playback Frame Rate	HD-SDI OUT	SDI OUT
1920x1080 P/i	4:4:4	23.98 P or 1080/4:2:2 23.98 P or 59.94 i	525/59.94 i
		25 P (50 i) or 4:2:2 25 P (50 i)	625/50 i
		29.97 P (59.94 i) or 4:2:2 29.97 P (59.94 i)	525/59.94 i
	4:4:2	23.98 P or 59.94 i or 1080/4:4:4 23.98 P	525/59.94 i
		25 P (50 i) or 4:4:4 25 P (50 i)	625/50 i
		29.97 P (59.94 i) or 4:4:4 29.97 P (59.94 i)	525/59.94 i

Specifications

GENERAL	
Power requirements	DC 11 to 17V
Operating temperature	0 °C to +40 °C
Storage temperature	-20 °C to +60 °C
Operating humidity	25 % to 80 % (relative humidity)
Mass (approx.)	7.7 kg
Dimensions (W x H x D)	272 x 400 x 147 mm
Digital recording/playback time	Max. 50 min with BCT-40SR cassette (24P mode)
Fast-forward/rewind time	Less than 5 min. with BCT-40SR tape
Load/unload time	Less than 3 sec.
IN/OUTPUT SIGNALS	
HD serial V/A input	BNC (x2), serial digital (1.485 Gb/s), SMPTE 292M, 372M /BTA S-004/ITU-R.BT 709
HD reference video input	BNC (x1), tri-level sync, 0.6 Vp-p, 75 Ω, sync negative or Black Burst, 0.286 Vp-p, 75 Ω, sync negative
SD reference video input	BNC (x1, with a loop-through), Black Burst, 0.286 Vp-p, 75 Ω, sync negative
Digital-audio input (CH7/8, 11/12)	BNC (x2, AES/EBU)
Analog-audio input (CH1, 2, 5, 6)	XLR-3-pin type, (female x4), +4 dBm, 600 Ω, low impedance, balanced
Time-code input	BNC (x1), 0.5 to 18 Vp-p, 10 kΩ
HD serial V/A output	BNC (x2), serial digital (1.485 Gb/s), SMPTE 292 M, 372 M/BTA S004/ITU-R.BT 709
HD monitor output	BNC (x1, with character out), serial digital (1.485 Gb/s), SMPTE 292 M/BTA S004/ITU-R.BT 709
SD monitor output	BNC (x1, with character out), D1 serial digital (270 Mb/s), SMPTE 259 M
Digital-audio output (CH1-12)	DSUB multi connector
Analog-audio monitor output	XLR-3-pin type, (male x2), +4 dBm, (with a 600 Ω load), low impedance, balanced
Time-code output	BNC (x1), 1.0 Vp-p (75 Ω), 2.2 Vp-p(10 kΩ)
Headphones	Mini jack
Remote IN	RS-422
Camera remote IN	

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Features and specifications are subject to change without notice.

All non-metric weights and measurements are approximate.

23.98P, 24P, 25P, 29.97P, and 30P are used as generic names in this literature for the industry standard 23.98PsF, 24PsF, 25PsF, 29.97PsF, and 30PsF (Progressive Segmented Frames), respectively.

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